

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

# **NOTICE OF ACCEPTANCE (NOA)**

Florida Storm Panel Supply, LLC 14475 N.W. 26th Avenue Opa Locka, Florida 33054

### Scope:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.035" (min.) Galvanized Steel Storm Panels Shutter

APPROVAL DOCUMENT: Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., last revision #1 dated May 27, 2015, signed & sealed by Yiping Wang, P.E., on June 02, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 14-0221.04 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, & E-5 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIAMI-DADE COUNTY
APPROVED

He GA. Melo~ 07/23/2015 NOA No. 15-0615.07 Expiration Date: 01/04/2019 Approval Date: 07/23/2015

Page 1

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## 1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVALS

## A. DRAWINGS

1. Drawing No. 95-498, Florida Storm Panels, Inc., 20 gage Storm Panels, Sheets 1, 2, 3 and 4 of 4, prepared by Knezevich & Associates, Inc., dated 02/26/97, signed and sealed by V.J. Knezevich, P.E.

#### B. TESTS

- 1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 20 gage storm panels, prepared by Construction Testing Corporation, Report No. CTC-95-032, dated September 26 through 29, 1995, signed and sealed by Christopher G. Tyson, P.E.
- 2. Test report on Large Missile Impact and Cyclic Wind Pressure Test, of 20 Gage Steel Storm Panels, prepared by Construction Testing Corporation, Report No. CTC-96-009, dated February 26 & 28, 1996, signed and sealed by Christopher G. Tyson, P.E.

#### C. CALCULATIONS

- 1. Storm panel calculations and comparative analysis, Sheet 1 through 24, Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated October 2, 1995.
- 2. Storm panel calculations and comparative analysis, by Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated 06/14/96 and 02/26/97.

## D. MATERIAL CERTIFICATION

- 1. Mill Certified Inspection Report, dated 5/26/95, for Hot Dipped Galvanized Steel, ASTM A446 by Productor de Acero Laktbal, C.A., with chemical composition and physical properties.
- 2. Tensile Test Reports from QC Metallurgical, Inc., Job No. 5IM-2162 dated 09/26/95 for galvanized steel, tested per ASTM E8-93, signed and sealed by James W. Roese, P.E.
- 3. Tensile Test Reports from QC Metallurgical, Inc., Job No. 6CM-719 dated 03/25/96 for galvanized steel, tested per ASTM E8-93, signed and sealed by Frank Grate, P.E.

## 2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0105.03

## A. DRAWINGS

1. None.

## B. TESTS

1. None.

### C. CALCULATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Unit Supervisor

> NOA No. 15-0615.07 Expiration Date: 01/04/2019

Approval Date: 07/23/2015

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### D. MATERIAL CERTIFICATIONS

1. None.

#### 3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0804.01

#### A. DRAWINGS

1. Drawing No. 99-097, Florida Storm Panels, Inc., titled "20 Ga. Galvanized Steel Storm Panel", Sheets 1, 2, 3 and 4 of 4, prepared by Knezevich & Associates, Inc., dated 07/19/99, last revision #2 dated 12/23/99, signed and sealed by V.J. Knezevich, P.E.

#### B. TESTS

1. None.

## C. CALCULATIONS

- 1. Anchor calculations, sheets 1 through 28, prepared by Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated July 21, 1999.
- 2. Revised anchor calculations, sheets 1 through 8, prepared by Knezevich and Associates, Inc., signed and sealed by V.J. Knezevich, P.E., dated December 29, 1999.

## D. MATERIAL CERTIFICATIONS

1. None.

#### 4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0531.02

## A. DRAWINGS

1. Drawing No. 99-097, titled "20 Ga. Galvanized Steel Storm Panel", sheets 1 through 4 of 4, prepared by Knezevich & Associates, Inc., dated July 19, 1999, last revision #3 dated May 22, 2002, signed and sealed by V.J. Knezevich, P.E.

## B. TESTS

1. None.

## C. CALCULATIONS

None.

#### D. MATERIAL CERTIFICATIONS

1. None.

## 5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0826.07

#### A. DRAWINGS

1. None.

Product Control Unit Supervisor

NOA No. 15-0615.07

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- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. None.
- D. MATERIAL CERTIFICATIONS
  - None.
- 6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0110.03
- A. DRAWINGS
  - 1. Drawing No. 05-536, titled "20 Ga. Galvanized Steel Storm Panel", sheets 1 through 4 of 4, prepared by Thornton-Tomasetti Group, dated January 06, 2006, last revision #0 dated January 06, 2006, signed & sealed by J.W. Knezevich, P.E.
- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. **Revised** Anchor Calculations and details for 20 Ga. Galvanized steel Storm Panels, dated December 20, 2005, pages 1 through 24 of 24, prepared by Thornton-Tomasetti Group, signed and sealed by J. W. Knezevich, P.E.
- D. OUALITY ASSURANCE
  - 1. By Miami-Dade County Building Code Compliance Office.
- E. MATERIAL CERTIFICATIONS
  - 1. None.
- 7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0817.02
- A. DRAWINGS
  - 1. None.
- B. TESTS
  - 1. None.
- C. CALCULATIONS
  - 1. None.
- D. QUALITY ASSURANCE
  - 1. By Miami-Dade County Building Code Compliance Office.
- E. MATERIAL CERTIFICATIONS
  - 1. None.

Melmy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 15-0615.07

**Expiration Date: 01/04/2019 Approval Date: 07/23/2015** 

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0114.03

#### A: DRAWINGS

1. None.

### B. TESTS

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of 20 gage storm panels, prepared by Construction Testing Corporation, Report No. CTC-08-018, dated December 21, 2008, signed and sealed by Yamil G. Kuri, P.E.

## C. CALCULATIONS

1. None.

## D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

## E. MATERIAL CERTIFICATIONS

1. None.

#### 9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #12-0330.15

#### A. DRAWINGS

1. Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated March 30, 2012, signed & sealed by Yiping Wang, P.E.

#### B. TESTS

1. None.

# C. CALCULATIONS

1. None.

#### D. **OUALITY ASSURANCE**

1. By Miami-Dade County Department of Permitting, Environment, and regulatory Affairs (PERA).

## E. MATERIAL CERTIFICATIONS

1. None.

Hermy A. Makar, P.E., M.S. Product Control Unit Supervisor

NOA No. 15-0615.07

Expiration Date: 01/04/2019

Approval Date: 07/23/2015

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0221.04

### A. DRAWINGS

1. Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., dated March 30, 2012, signed & sealed by Yiping Wang, P.E., on January 21, 2014.

#### B. TESTS

1. None.

## C. CALCULATIONS

1. None.

## D. QUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

## E. MATERIAL CERTIFICATIONS

1. None.

#### 11. NEW EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing # AD12-31, titled "20 Ga. Galvanized Steel Storm Panel-LMI", sheets 1 through 4 of 4, prepared by MCY Engineering, Inc., last revision #1 dated May 27, 2015, signed & sealed by Yiping Wang, P.E., on June 02, 2015.

# B. TESTS

None.

# C. CALCULATIONS

1. None.

#### D. OUALITY ASSURANCE

1. By Miami-Dade County Department of Regulatory and Economic Resources.

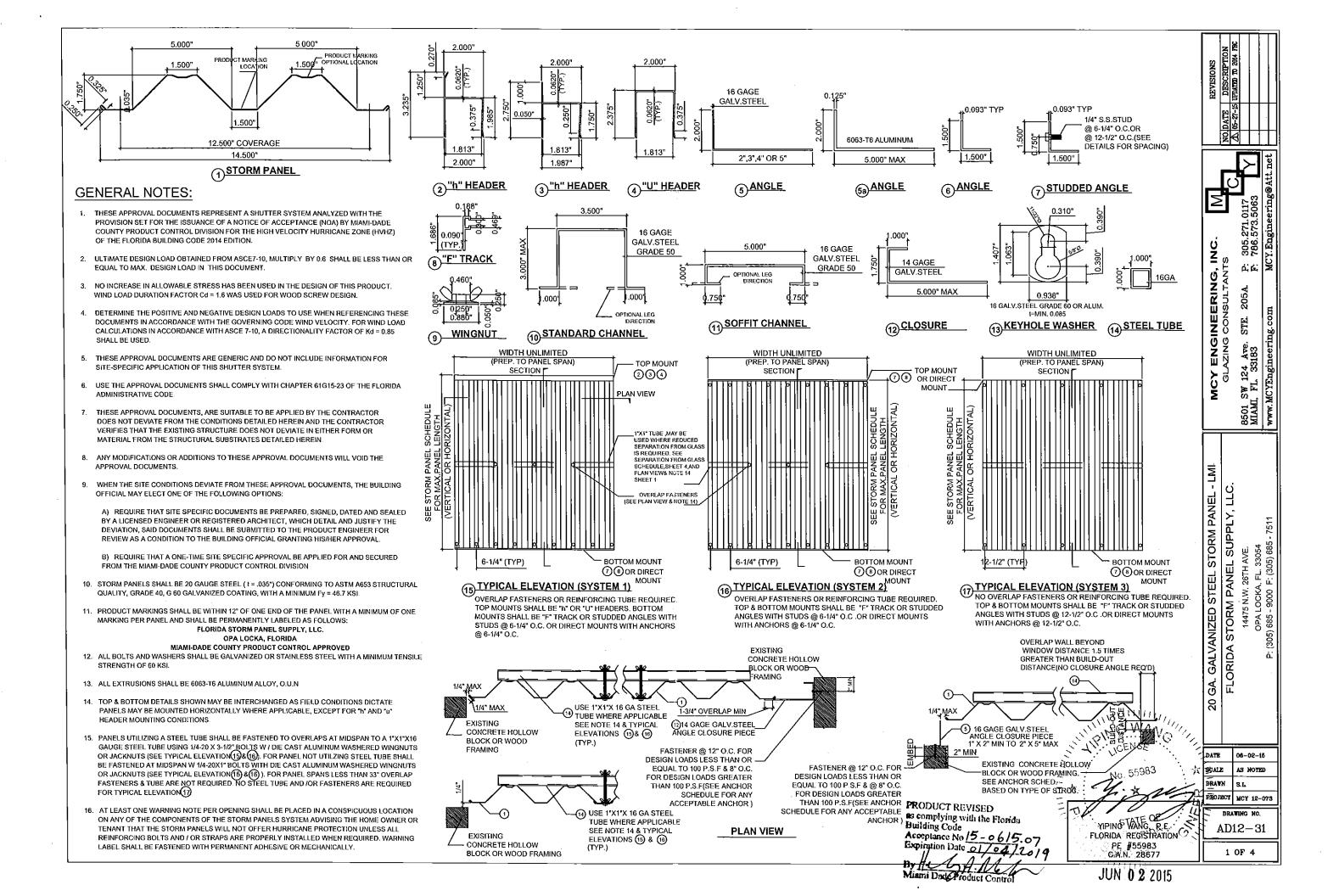
## E. MATERIAL CERTIFICATIONS

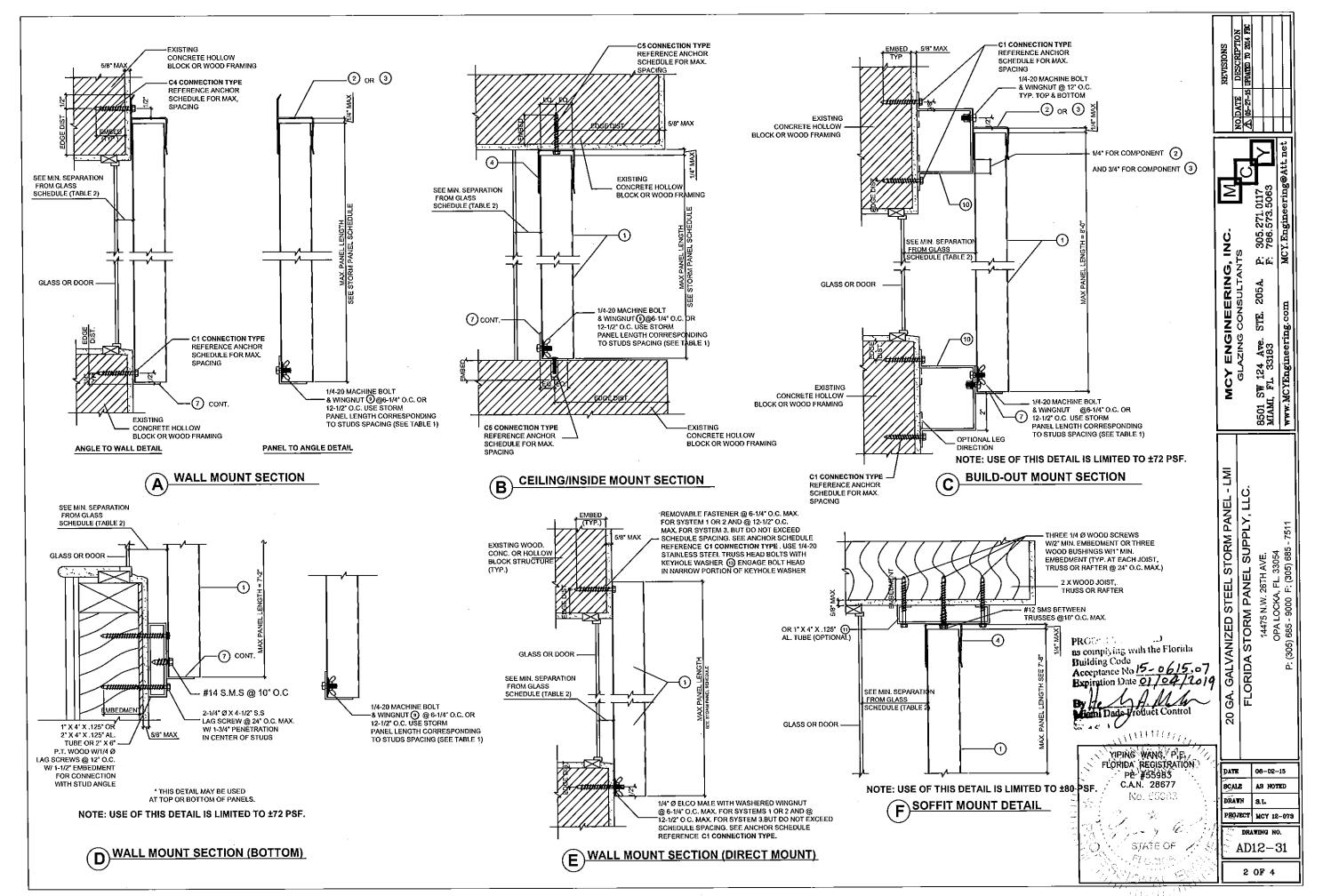
1. None.

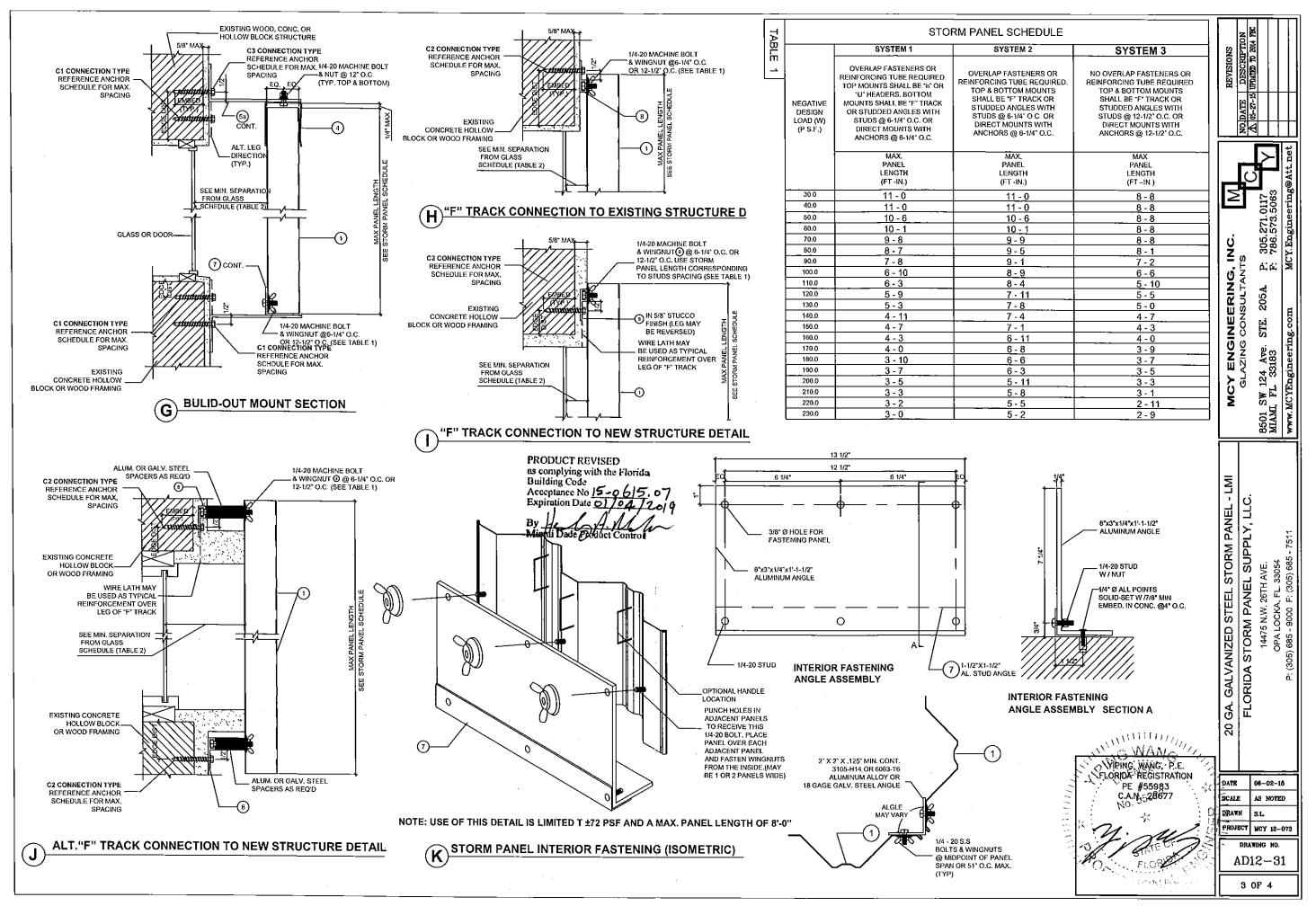
Hemy A. Makar, P.E., M.S. Product Control Unit Supervisor NOA No. 15-0615.07

Expiration Date: 01/04/2019

**Approval Date: 07/23/2015** 







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		48.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	6.25		12.5	12.5	12.5	4	8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	8	12.5	_	12.5	12.5	<u> </u>	10
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ニ	l	62.0	9.6	9.6	+	3.2	5.6	5.6	5.6	5.6	VZ	3.2	4.8	4.8	4	$\mathbb{Z}$	2.4	10	10	10	4	7.2	7.2	7.2	7.2		4	5.6	5.6	5	//	3.2
	1/4 "Ø ELCO TAPCOM W/ 1- 1/2" M(N. EMBEDMENT	72.0	8	8	8	14	4.8	5	5	5	1//	///	4	4	44		2.4	10	10	10	3.2	5.6	6.4	6.4	6.4	///	3.2	5	5	$\mathbb{Z}$	$\mathbb{Z}$	
0	ILE MAIN, GIMBEDMENT	92.0 160.0	6.4	6.4	6.4 122	<b>K</b> 4	3.2	4	4	//	<b>//</b>	<i>\\\</i>	3.2	<b>!</b> //	4	44	//	8	8	8	4	4.8	5	5	[]	//,	Ζ,	4	4	4	//	44
エ	1	200.0	13	#	<b>//</b>	<b>\</b>	<del>//</del>	3	1	*	<del>//</del>	<del>}//</del>	$\frac{1}{2}$	<i>///</i>	//	//	4	32		H	//	4	4	$\mathcal{A}$	44	//	//	4		//	//	
	<u> </u>	200.0	<i>/</i> /		///	<i>V</i> /		//		1//	<u> </u>		1//	V Z	~//	//	$V \angle I$	3.2	<i>ZZ.</i>	<u>///</u>		//	3.2		///		ZZ,	3.2		$\angle\!$		VZ

	,	FASTENER MAXIMUM SPACII	ANC								DES	IGN	LOA	DS A	ND:	SPAI	vs		
-		<u> </u>	LOAD				Α	AIN.	. 3/4	1º E	DGI	E DI	STA	NC	E				
	EXIST. STRUC.		(W)	SPANS UP TO					S	PAN	IS U	IP T	0	SPANS UP TO					
7			P.S.F.	5'-6"				8'6''					11'-0''						
		ANCHOR TYPE	MAX,	_		NO		_	_	_	NO			(SEE NOTE 1)					
-			(SEE	CONNECTION TYPE (SEE NOTE 3)							TIO			CONNECTION TYPE					
4	👸		NOTE		•		. 1			r i	NO						(E 3		
1	<del> </del>		1)	_	_	C3	-	-	$\vdash$		СЭ.	_			_	-	C4	_	
5			48.0	11	11	11	11	11	11	41	11	11	10	11	11	11	8	7	
7	<b>.</b>	1/4"ø x MIN, 3", LONG	62.0	11	11	11	11	11	11	11	11	8	7	11	11	11	6	6	
]		LÁG ŚCRĖW W/ MÌN. 2" EMBED, SHEAR PARALLEL OR PERP. TO WOOD GRAIN	72.0	11	11	11	11	10	11	11	11	7	6	11	11	11	5	5	
]			92.0	11	11	11	9	8	11	11	11	5	5	11	10	6	3	4	
_	9		200.0	11	8	5	3	3	11	7	4	3	3	11	7	4	3	m	
5	WOOD	A. ATTITU	48.0	6,25	6.25	6.25	6.25		6.25	6.25	6.25	3	//	6.25	6.25	6.25		$\overline{//}$	
4	5	*	62.0	6.25	6.25	6.25	5		6.25	6.25	6.25			6.25	6,25	6			
1		7/16" WOOD BUSHING	72.0	6.25	6.25	6.25	3		6.25	6.25	6,25			6	6	3		77	
1		W/5/8" MIN. EMBED. & 1/4-20 STAINLESS STEEL	92.0	6.25	6.25	6.25			6	6	3	///		4	//			//	
1		MACHINE SCREW	200.0	4					4					4					

TA	,	MIN	I. SEPARA	TION FRO	M GLASS SCHEDU	JLE	EEF	CONSI	STE. 20	сош
B	POSITIVE	MAX.			ATION FOR LESS THAN 30' RADE (IN.)	MIN. SEPARATION FOR INSTALLATIONS GREATER THAN 30'		GLAZING O	124 Ave. ST L 33183	www.MCYEngineering.com
2	DESIGN LOAD (W)	PANEL LENGTH	SYSTEN	1S 1 & 2	SYSTEM 3	ABOVE GRADE	MCY	Ö	, 124 T. 3	Engi
	(P.S.F.)	(FT, - IN.)	MIDSPAN TUBE	MIDSPAN BOLTS	NO MIDSPAN BOLTS OR TUBE REQUIRED	ALL CONDITIONS	Σ		8501 SW 1 MAM, FL	www.MC
		5 - 7	2-1/4	2-3/8	3~1/2	1-1/8				=
	40.0	8 – 5	2-1/4	2-3/8	3-1/2	1-5/8				
	40.0	8 - 8	3	3	3-1/2	1-3/4				l
		11 – 0	3	3	N / A	2-7/8	Z			
		5 - 7	2-1/4	2-3/8	3-1/2	1-1/4	5			
	50.0	8 - 5	2-1/4	2-3/8	3-1/2	1-7/8	占	O.		- 1
		8 - 8	3	3	3-1/2	1-7/8	ΙЩ	J		II.
		10 – 6	3	3	N / A	33	STORM PANEL	SUPPLY, LLC		- 1
	+	5 - 7	2-1/4	2-3/8	3-1/2	1-1/4	J	ارکا		F: (305) 685 - 7511
	60.0	8 - 5	2-1/4	2-3/8	3-1/2	i	ĮΣ	풉		~
		8 - 8	3	3	3-1/2	2-1/8	18	15	; ½	88
		10 - 1	3	3	N/A	3	1		% 30.€	<u>ا</u>
		5 - 7	2-1/4	2~3/8	3-1/2	1-1/4		ᆸ	Ξ.	<u>జ</u> []
	70.0	8 - 5	2-1/4	2-3/8	3–1/2	2-1/8	STEEL	叓	ا ا	<u>ن</u>
		8 - 8	. 3	3	3-1/2	2-1/4	ΙШ	אַ	> 5	
	N / A	9 - 9 DESIGNAT	ES CONDIT	rions whic	N / A CH ARE NOT ACCEP	TABLE USES.	GALVANIZED ST	A STORM PANEL	14475 N.W. 26TH AVE. OPA LOCKA, FL. 33054	P: (305) 685 - 9000
DITIONS RAMING LY FOR STENER				CT REVISEI lying with the Code	Florida	MHIIIIIII	20 GA. GAL\	FLORIDA		ġ.

#### ANCHOR NOTES:

- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY, ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
- ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
- 3. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
- 5. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- 6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY: FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING, WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD,
- MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE A WAFER HEAD (SIDEWALK BOLT), U.O.N.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- \* DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.

PRODUCT REVISED ss complying with the Florida	•
Building Code Acceptance No <u>15 - 0 6/5</u> .0 Expiration Date <u>01/04/7</u> 0/	7 WANG
By He S. A. M.	YIPINO SWANG, P.E.
Miami Dade Oduci Control	PE #55983 CAIN 28677
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MCY ENGINEERING, INC. GLAZING CONSULTANTS

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